Git Assignment

• How do you initialize a new Git repository named "project1" on your local machine?

git init after create folder name project1 in local.

• How do you add a new file named "index.html" to the "project1" repository?

touch index.html and then git add . (Create file index.html)

• How do you stage the changes made to "index.html" for committing?

git commit

• How do you commit the changes made to "index.html" with a commit message of "Add index.html"?

git commit -m “understanding messages here…”

• How do you view the commit history of the "project1" repository?

git log

• How do you create a new branch named "feature-branch" in the "project1" repository?

git branch feature-branch

• How do you switch to the "feature-branch" in the "project1" repository?

git checkout feature-branch

• How do you make changes to "index.html" in the "feature-branch"?

echo “changes on here..” >> index.html or open file and edit.

• How do you stage and commit the changes made in the "feature-branch" with a commit message of "Update index.html in feature branch"?

git add-commit -m “Update index.html in feature branch”

git push -u origin feature-branch

• How do you switch back to the main branch in the "project1" repository?

git checkout main

• How do you merge the changes from the "feature-branch" into the main branch?

git merge feature-branch

• How do you resolve any merge conflicts that occur during the merge process?

git pull origin main

git status

open the conflicting file using a text editor vim index.html

resolve the conflict here we can see the conflicting changes are marked by <<<<head >>>> manually edit the file to combine the conflict changes.

git add-commit -m “updated in index.html”

• How do you view the changes introduced by the merge commit?

git log

• How do you create a new tag named "v1.0" for the current commit in the "project1" repository?

git tag v1.0

git tag

>>>v1.0

• How do you push the "project1" repository to a remote repository named "origin"?

git push origin origin

• How do you clone the "project1" repository from a remote repository to another machine?

git clone “https:/….copy the link from repository and paste it”

• How do you fetch the latest changes from the remote repository to your local "project1" repository?

git fetch origin feature-branch

• How do you pull the latest changes from the remote repository into your current branch in the "project1" repository?

git pull origin feature-branch

• How do you create a new branch named "bug-fix" in the "project1" repository based on a specific commit?

git checkout feature-branch

git branch bug-fix

• How do you revert the last commit made in the "project1" repository?

git reset —hard